Safety Data Sheet

Issue Date 07-Jun-2016 Revision Date 09-Oct-2019 Version: 3

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name Universol Special 104 9-0-39+3.5MgO+TE

Product Code: 20440225EB

Pure substance/mixture Mixture.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fertilizer (PC12). Restricted to professional users.

Uses Advised Against: Consumer use [SU 21].

1.3. Details of the supplier of the safety data sheet

Everris International B.V.Nijverheidsweg 1-5; 6422 PD Heerlen (NL); Tel: +31 (0)45-5609100; Fax: +31 (0)45-5609190.

For further information, please contact: INFO-MSDS@EVERRIS.COM.

1.4. Emergency telephone number: IN CASE OF AN EMERGENCY CALL: +44 1235 239 670 (24h).

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Mixture

Regulation (EC) No 1272/2008 (CLP)

Eye Irritation	Category 1 - (H318)
Oxidizing solids	Category 3 - (H272)

2.2. Label elements



Signal Word: Danger

Hazard Statements:

H318 - Causes serious eye damage

H272 - May intensify fire; oxidizer Contains Potassium sulphate; K₂SO₄

Precautionary Statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P221 - Take any precaution to avoid mixing with combustibles

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No.	CAS No	Weight %	Classification according Regulation (EC) 1272/2008 [CLP]	REACH registration number
Potassium sulphate; K ₂ SO ₄	231-915-5	7778-80-5	10 - 25%	Eye Dam. 1 (H318)	01-2119489441-34
Urea phosphate	225-464-3	4861-19-2	1 - 5%	Skin Corr. 1B (H314)	01-2119489460-34
Iron-EDTA-13; Fe-EDTA	239-802-2	15708-41-5	0.1 - 1%	Not classified	01-2119496228-27
Manganese-EDTA, Mn-EDTA	239-407-5	15375-84-5	0.1 - 1%	Not classified	01-2119493600-40

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice: First aid measures should be executed by trained personnel only.

In the case of inhalation of aerosol/mist consult a physician if necessary. Possible

symptoms are coughing and/or dyspnoea. If symptoms persist, call a physician.

Skin Contact: Rinse with plenty of water. If a person feels unwell or symptoms of skin irritation appear,

consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep

eye wide open while rinsing. Continue rinsing eyes during transport to hospital.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting

without medical advice. Possible symptoms are nausea and/or vommiting. If a person vomits when lying on his back, place him in the recovery position. Never give anything by

mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

None under normal processing

4.3. Indication of any immediate medical attention and special treatment needed

None under normal processing.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

<u>Suitable Extinguishing Media:</u> Flooding quantities of water.

Unsuitable Extinguishing Media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors. The product itself does not burn. May intensify fire; oxidizer.

5.3. Advice for firefighters

Use extinguishing agent suitable for type of surrounding fire. In the event of fire and/or explosion do not breathe fumes. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions: Avoid dust formation. Ensure adequate ventilation. Sweep-up to prevent slipping hazard.

Do not get in eyes.

For Emergency Responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent product from entering drains. Do not contaminate surface water.

6.3. Methods and material for containment and cleaning up

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleanup: Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.

6.4. Reference to other sections

§ 8, 12, 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/storage conditions:

Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used packaging should be closed well. Keep at temperatures between 0 °C and

40 °C.

Packaging Materials: Store in original container. Store in a closed container.

PGS-7 (The Netherlands) 1.3/C LGK (Germany) 5.1B

7.3. Specific end use(s)

Specific use(s) Fertilizer; www.everris.com; Read and follow label instructions

Exposure scenario Mixture. Not required.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Potassium sulphate; K2SO4				
Bulgaria - OEL- TWAs	10.0 mg/m³ TWA			
Latvia - OEL - TWAs	10 mg/m³ TWA			
Iron-EDTA-13; Fe-EDTA				
Denmark	TWA: 1 mg/m ³			
Finland	TWA: 1 mg/m ³			
Portugal	TWA: 1 mg/m ³			
Spain - Valores Limite Ambientales - VLE	TWA: 1 mg/m ³			
Switzerland	TWA: 1 mg/m ³			
UK EH40 WEL (8h)	1 mg/m³ TWA			
Manganese-EDTA, Mn-EDTA				
Czech Republic OEL	1 mg/m³ TWA			
Ireland	TWA: 0.2 mg/m ³			
	STEL: 0.6 mg/m ³			

Derived No Effect Level (DNEL)

Component	Oral	Dermal	Inhalation
Potassium sulphate; K ₂ SO ₄		21.3 mg/kg bw/day	37.6 mg/m ³
7778-80-5 (10 - 25%)			_

Predicted No Effect Concentration (PNEC)

No data available

Component	Fresh Water	Freshwater sediment	Sea Water	Sea sediment	Soil	Impact on Sewage Treatment
Potassium sulphate;	0.68 mg/l		0.068 mg/l			10 mg/l

K ₂ SO ₄			
7778-80-5 (10 - 25%)			

8.2. Exposure controls

Personal protective equipment

Eye/Face Protection Wear eye/face protection

Hand protection Gloves. Nitrile rubber (0.26 mm). Break through time. > 8 h.

Respiratory Protection Not required; except in case of aerosol formation. In case of mist, spray or aerosol

exposure wear suitable personal respiratory protection and protective suit

Skin and body protection: Lightweight protective clothing

Hygiene Measures: Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away

from food, drink and animal feeding stuffs.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State: Solid

Appearance: Prills, flakes and powder

Color: white. Odor: None

Bulk density: 900 - 1100 kg/m³

pH: 2-3

No data available **Melting Point/Freezing Point: Boiling Point/Range:** Solid. Not applicable. Flash Point: Solid. Not applicable. **Evaporation Rate:** Solid. Not applicable. Flammability (solid, gas): Not flammable Vapor Pressure: Solid. Not applicable. Vapour density Solid. Not applicable. Relative density No data available Water Solubility: No data available Solubility(ies) No data available **Partition Coefficient:** Solid. Not applicable. **Autoignition Temperature:** No data available **Decomposition temperature:** No data available

Explosive Properties: Doesn't present explosion hazard.

9.2. Other information

VOC Content (%): Solid. Not applicable.

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Not reactive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

10.4. Conditions to avoid

Avoid dust formation. Burning produces obnoxious and toxic fumes.

10.5. Incompatible materials

Keep away from catalysts like derivates of hexavalent chromium and metal halides. Keep away from flammable products (fuels) like charcoal, wood, flour, soot etc.

10.6. Hazardous decomposition products

None under normal processing. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):

Inhalation Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact May cause slight irritation.

Skin Contact May cause irritation.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts.

Information on Toxicological Effects

None known **Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): 31,251.00 mg/kg

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Potassium sulphate; K₂SO₄ (7778-80-5)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium sulphate; K ₂ SO ₄	= 6600 mg/kg (Rat)	> 2000 mg/kg (Rat)	N.E.
Urea phosphate	2600 mg/kg		
Iron-EDTA-13; Fe-EDTA	= 5 g/kg (Rat) > 5000	> 5000 mg/kg (Rat)	> 2.05 g/m³ (Rat) 4 h
	mg/kg (Rat)		

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:

If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. More detailed substance and/or ingredient information may be provided in the other sections of this SDS

Serious eye damage/eye irritation Classification based on individual ingredients of the mixture.

Respiratory or skin sensitization Classification based on individual ingredients of the mixture.

Germ Cell Mutagenicity Classification based on individual ingredients of the mixture.

Carcinogenicity Classification based on individual ingredients of the mixture.

Reproductive Toxicity Classification based on individual ingredients of the mixture.

STOT - Single Exposure Classification based on individual ingredients of the mixture.

STOT - Repeated Exposure Classification based on individual ingredients of the mixture.

Aspiration Hazard Classification based on individual ingredients of the mixture.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Should not be released into the environment

Unknown Aquatic Toxicity 0% of the mixture consists of components(s) of unknown hazards

to the aquatic environment.

Chemical Name	Algae/aguatic plants	Fieh	Toxicity to	Crustacea
Chemical Name	Aluae/aduatic biants	l Fish	I OXICITY TO	Crustacea

			Microorganisms	
Potassium sulphate;	2900: 72 h	653: 96 h Lepomis	-	890: 48 h Daphnia
K ₂ SO ₄	Desmodesmus	macrochirus mg/L LC50		magna mg/L EC50
	subspicatus mg/L EC50	3550: 96 h Lepomis		
		macrochirus mg/L LC50		
		static 510 - 880: 96 h		
		Pimephales promelas		
		mg/L LC50 static		

12.2. Persistence and degradability

Persistence and Degradability: No persistent or cumulative effects were observed.

12.3. Bioaccumulative potential

Bioaccumulation: Does not bioaccumulate.

No data available. 12.4. Mobility in soil

12.5. PBT and vPvB assessment No data available.

No data available. 12.6. Other adverse effects

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging: Do not reuse container.

Other Information Use up product completely. Packaging material is industrial waste.

Section 14: TRANSPORT INFORMATION

IMO / IMDG

14.1 UN-No: 1479

14.2

Oxidizing solid, N.O.S. (Potassium nitrate) Proper shipping name:

14.3

Hazard Class: 5.1 14.4 Packing group: Ш 5 kg

Limited Quantity

14.5 Marine Pollutant: Not regulated

14.6 F-A / S-Q EmS: 223, 274, 900 **Special Provisions**

14.7 Bulk transport according Annex II of MARPOL and IBC Code No data available

ADR/RID

14.1 UN-No: 1479

14.2

Oxidizing solid, N.O.S. (Potassium nitrate) Proper shipping name:

14.3

Hazard Class: 5.1 14.4 Packing group:

14.5

Environmental Hazard Not regulated

14.6

Special Provisions274Tunnel restriction codeELimited Quantity5 kg

IATA

14.1 UN-No: 1479

14.2

Proper shipping name: Oxidizing solid, N.O.S. (Potassium nitrate)

14.3

Hazard Class: 5.1

14.4

Packing group:

14.5

Environmental Hazard Not regulated

14.6

Special Provisions A3



Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Belgium

Denmark

Denmark No data available

<u>France</u>

ICPE Classified installation: article 4706

<u>Germany</u>

LGK (Germany) 5.1B

Water Endangering Class (WGK): 1 (Everris classification)

Gefahrstoffverordnung (Germany) TRGS 511 Not regulated

Component	German WGK Section
Potassium sulphate; K ₂ SO ₄	1
7778-80-5 (10 - 25%)	
Urea phosphate	class 1
4861-19-2 (1 - 5%)	
Iron-EDTA-13; Fe-EDTA	2
15708-41-5 (0.1 - 1%)	
Manganese-EDTA, Mn-EDTA	2
15375-84-5 (0.1 - 1%)	

15.2 Chemical safety assessment

Substance(s) usage is covered according to Reach regulation 1907/2006

Take note of Dir. 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage

Key or legend to abbreviations and acronyms used in the safety data sheet

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No Effect Concentration

DNEL: Derived No-Effect Level

REACh: Registration, Evaluation, Authorization of Chemicals CLP: EU-GHS; Classification, Labelling and Packaging

OEL: Occupational Exposure Limit TWA: Time Weighted Average ATE: Acute Toxicity Estimate

EUH phrase: CLP (EU) specific hazard statement

LD50: Lethal dose, 50%.

LC50: Lethal concentration, 50%. SVHC: Substance of Very High Concern.

Classification procedure

· Calculation method

Expert judgment and weight of evidence determination

Key literature references and sources for data

According to EC Regulation 1907/2006 (Reach), Regulation EU

No. 2015/830. Regulation (EC) No 1272/2008 (CLP).

Prepared by Regulatory Affairs Department (INFO-MSDS@EVERRIS.COM)

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